

ABSTRACT

[0043] A realtime digital watermarking using an encrypted algorithm allows a user client to have a user key for user authentication when the user client gains access to the Internet. If a user key for user authentication is assigned to a user client and then the user client having accessed the computer network such as the Internet requests content, a duplication process (history) of the contents is watermarked and then transferred to the requested contents in realtime. Moreover, an encrypted algorithm is added in the watermarking process, to thereby avoid alteration or damage due to abnormal extraction of the watermarked information. For this reason, it is not necessary to watermark digital contents each time when the digital contents are produced. Further, since a duplication process (history) of contents including a user identification (ID) and a user key other than a simple, fixed text or textual pattern is watermarked, it is possible to obtain a more assured and effective content protection.